

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130
617-983-6622

02/03/12

Kathleen Celio
Assistant District Attorney, Suffolk County

Dear ADA Celio,

Enclosed are copies of the information you requested regarding sample number in the following:

- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Daniela Frasca and Annie Khan (Dookhan).
- 3. Control Card with Analytical Results for sample number

.

- 4. Analysis Notation Forms for the above sample number.
- 5. GC-MS Raw Data Sheets for the above sample number.

GC-MS confirmatory testing was performed by Annie Khan (Dookhan). All other testing was performed by Daniela Frasca. If you have any questions or concerns about these facts, please contact me at the number below.

Sincerely,

Daniela Frasca Chemist II

Drug Laboratory 617 983-6631

fax: 617 983-6625

	СС	#			THE RESERVE AND ADDRESS AND AD
BOSEON DEPARTMENT	BO T BO	ок #	74		
DRUG RECEIPT	PAC	GE #	73		
		STRUCTION	#		
District/Unit B-3/CKO	10				
Name & Rank of Arresting Officer P.O.	') MacIs	and Me	Neil	ID#_ <i>938</i>	52/86845
				·	7
DEFENDANT'S NAME	ADI	DRESS		CITY	STATE
	54 Cumber	land Av. V	erikalme	Portland	ME
	03 Ashlai	ul St #0	<u> </u>	Malden	MA
	<u> </u>	- C			SE ONLY
DESCRIPTION OF ITEMS SUBMITTE	D	GROS QUAN	-	GROSS WEIGHT	ANALYSIS NUMBER
P/b's Crack Cocaine	, (Alli	2 2 D/	/s (4)	26,8%	
110) CIACE (DC4)110		J 91 / /	12	geroig	
		-			
	ACCOMPANY AND SOUTH AND SOUTH AND SOUTH ASSOCIATION OF THE SOUTH ASSOCI	ook occasional accession constitution and accessions.		ececedoseaceaceaceaceaceaceaceaceaceaceaceaceace	
To be completed by ECU personnel only	у		,		
Name and Rank of Submitting Officer	6 Sup. 2	LWA	, de	ID# ///	06 <i>0</i>
Tamo and raint of oddinating Officer	10			ID#	6h 11
Received by	112 1		Da	ate	321/

BPD Form 0038-BIS-0907 (prev. 1753)

6.48€_5±231

ECU Control # _

Curriculum Vitae

Daniela Frasca

Education

Suffolk University, Boston, MA

Graduated in 05/1996 and received a Bachelor of Science in Biochemistry

EXPERIENCE

Massachusetts State Laboratory Institute/DPH, Jamaica Plain, MA 01/2001 – present Drug Laboratory: Chemist II

- Analysis of all substances by chemical screening, microscopy, and instrument confirmation to determine the
 presence of drugs for law enforcement agencies in the Commonwealth of Massachusetts.
- Appointed assistant analyst on January 29, 2001 by the Assistant Commissioner of DPH
- Completed four weeks of training in drug analysis under the supervision of senior chemists.

Quest Diagnostics Incorporated, Cambridge, MA

09/1996 - 10/2001

Department of Toxicology: Medical Technologist I

- Handles comprehensive toxic analysis, therapeutic drug monitoring, forensic drug screening, and compound ID's of biohazard samples utilizing standard operating procedures in clinical toxicology.
- · Entered data and interpreted results for reporting
- QC/QA of multiple analytical instrumentation as well as maintenance
- Completed 60 days of training under the supervision of doctorate level toxicologists.

Additional Training and Graduate Courses

Boston University School of Medicine

Forensic Toxicology

Bloodstain Pattern Analysis

Forensic Pathology

Pattern Evidence Analysis

Trace Evidence Analysis

Forensic Biology

Criminal Law Mock Court (Expert Witness)

Northeastern Association of Forensic Scientists

Designer Drugs

Clandestine labs

Agilent Instruments and Software

Digital Photography

McCrone Research Institute

Scanning Electron Microscopy and X-ray Microanalysis

Forensic Polarized Microscopy

Polarized Microscopy of Illicit Drugs and Excipients

Sample Preparation and Manipulation for Microanalysis

Chemical Microscopy

Massachusetts State Laboratory Institute

Expert Witness Testimony

Portable Raman Spectrometry

Associations and Programs

- Northeastern Association of Forensic Scientists (NEAFS)
- The International Association of Forensic Toxicologists (TIAFT)
- The International Association of Therapeutic Drug Monitoring And Clinical Toxicology (IATDMCT)
- Massachusetts State Science Fair Judge
- · Middle School State Science Fair Judge
- TTT Mentor Science Project Mentor/Tutor Volunteer

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry Minor: Economics

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Writing of the Standard Operating Procedures (SOPs) and Protocols.
- *Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.
- *Maintenance and repairs of analytical instruments.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health.
- *Notary Public.

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.
- *Method Development for creating new techniques for the QC Dept. and FDA.
- *Writing, revising and reviewing the Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Courses:

Department of Justice - Forensics Professionals

Introduction to Forensic Drug Chemistry

Chemical Spot Test and Mechanism for Illicit Drugs

Forensic Mass Spectrometry

Forensic Science 101: An Introduction

Fundamentals of Forensic Questioned Documents

Perspectives in Expert Testimony

Evidence Analysis

Ethics in Forensic Science

Transition to Leadership

Fundamentals of Forensic Toxicology

Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Date Analyzed: 06-30-14

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def:

Amount:

Subst: SUB

No. Cont:

Gross Wt.:

3 Cont: pb

Date Rec'd: 06/22/2011

26.87

No. Analyzed: 3

Net Weight: 2/-//9

#Tests: Z

Findings:

DRUG POWDER AN	ALYSIS FORM			
SAMPLE #	AGENCY Boston	1	ANALYST ON	D .
PHYSICAL DESCRIPTION:	PBS in Pl (heat sealed to evidence long,	315	AND ET	Check of R-180A 12907783
Calles 13300	nce Check of ne Merter Tale 12 Delta Rang 144:1118042881		1311-	
		2	Ev. ma	K
Substa	nce in 3 PB		is WM 22	
3 Marg 3 Froed				Nes M on back
3 Meck 3 Cabal	+ -, + Macid	÷	al New Wt.	
3 Gold				
3 TCTA	1 - + Macid	SC/MS CONFI	RMATORY TEST	
RESULTS Cacal	<u> → .</u>	ESULTS	Cocine	
DATE 6/28	4	MS RATOR	1397	•

Sample #:

QQ

samples tested:

#	<i>Gross</i> Welght	Packet Weight	Net Weight	#	<i>Gross</i> Welght	Packet Weight	Net Weight
1	14.6982		14.1403	26			
2	14.6982 3.4827	X	3,3489 3,6300 21.1192	27			
3	3,8001		3.6300	28			
4			21.1192	29			
5	anand da athan mananan			30	*.		
6			Ť .	31			
7				32	:		·
8				33	-	·	
9		1112		34			
10				35			484,000,40,40,40
11				36			
12				37			
13				38			,
14		**************************************		39			**************************************
15	AND THE RESERVE OF THE PERSON			40			
16		-		41		, , , , , , , , , , , , , , , , , , ,	
17				42			
18		W-4441.		43			
19				44			
20		· · ·		45			
21		***************************************		46			
22			101/201/2020201102011020110201102011020	47			
23			······································	48			
24				49			
25 Calcul	ations:			50			
	ASONE DY						
000740007000000000000000000000000000000				sootsgeeegennennennen			

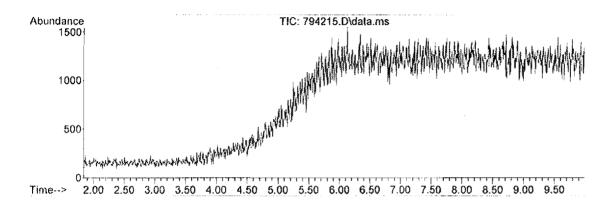
File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794215.D

Operator : ASD

Date Acquired : 29 Jun 2011 10:23

Sample Name : BLANK
Submitted by : DXF
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

45° 2



Ret. Time

Area

Area %

Ratio %

NO INTEGRATED PEAKS

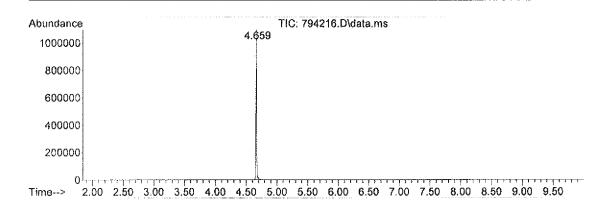
File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794216.D

Operator : ASD

Date Acquired : 29 Jun 2011 10:36

Sample Name : COCAINE STD

Submitted by : DXF Vial Number : 16 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.659	942096	100.00	100.00

File Name : F:\Q2-2011\SYSTEM 7\06 29 11\794216.D

Operator : ASD

Date Acquired : 29 Jun 2011 10:36

: COCAINE STD Sample Name

Submitted by : DXF Vial Number 16 AcquisitionMeth: DRUGS.M Integrator : RTE

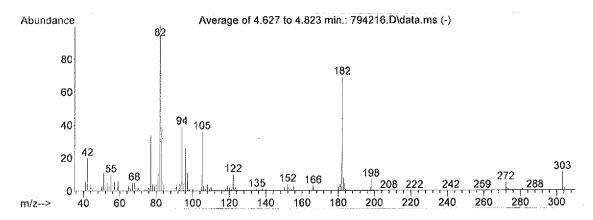
Search Libraries: C:\Database\SLI.L

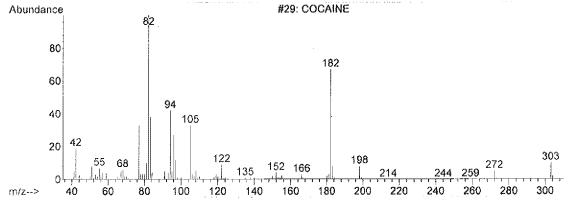
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99





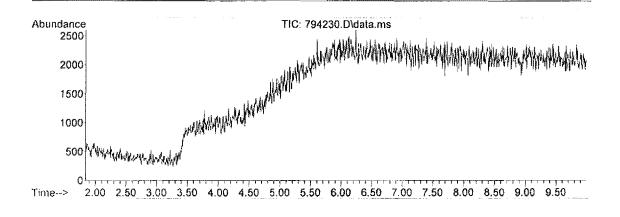
File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794230.D

Operator : ASD

Date Acquired : 29 Jun 2011 13:33

Sample Name : BLANK Submitted by : DXF Vial Number : 1 AcquisitionMeth: DRUGS.M

Acquisitionmeth: DRUGS Integrator : RTE



Ret. Time

Area

Area %

Ratio %

NO INTEGRATED PEAKS

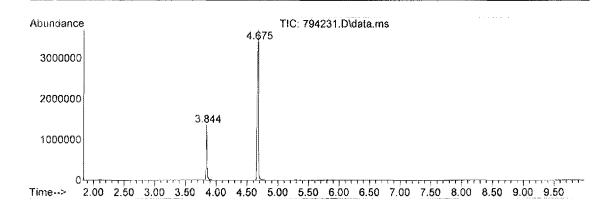
File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794231.D

Operator : ASD

Date Acquired : 29 Jun 2011 13:46

Sample Name :

Submitted by : DXF
Vial Number : 31
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.844	1479706		26.00
4.675	5690765		100.00

File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794231.D

Operator : ASD

Date Acquired : 29 Jun 2011 13:46

Sample Name :

Submitted by : DXF
Vial Number : 31
AcquisitionMeth: DRUGS.M
Integrator : RTE

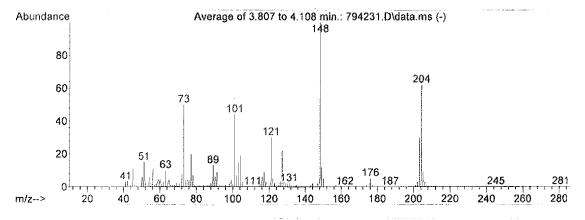
Search Libraries: C:\Database\SLI.L

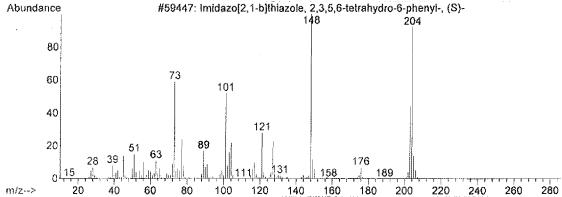
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
1	3.84	C:\Database\NIST05a.L			
		<pre>Imidazo(2,1-b)thiazole,</pre>	2,3,5,6-tet	014769-73-4	99
		<pre>Imidazo(2,1-b)thiazole,</pre>	2,3,5,6-tet	006649-23-6	98
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	014769-73-4	98





File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794231.D

Operator : ASD

Date Acquired 29 Jun 2011 13:46

Sample Name

Submitted by DXF Vial Number 31 AcquisitionMeth: DRUGS,M Integrator : RTE

Search Libraries:

RT

PK#

2

C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW TOX2.L

CAS# Qual

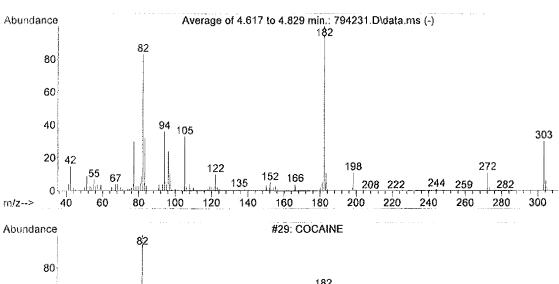
C:\Database\SLI.L 4.68

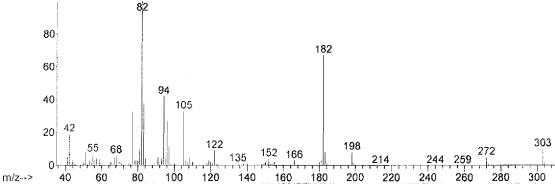
Library/ID

COCAINE

000050-36-2

99





File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794232.D

: ASD Operator

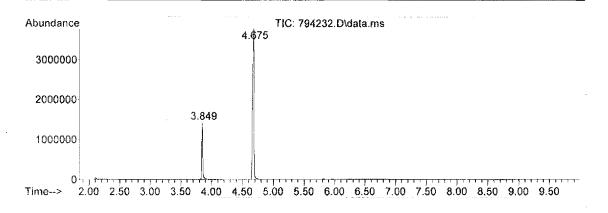
Date Acquired : 29 Jun 2011 13:58

Sample Name Submitted by

: DXF : 32

Vial Number AcquisitionMeth: DRUGS.M

Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.849 4.675	1736623 6183317	21.93 78.07	28.09 100.00	

File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794232.D

Operator : ASD

Date Acquired : 29 Jun 2011 13:58

Sample Name :
Submitted by

Submitted by : DXF
Vial Number : 32
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries:

C:\Database\SLI.L

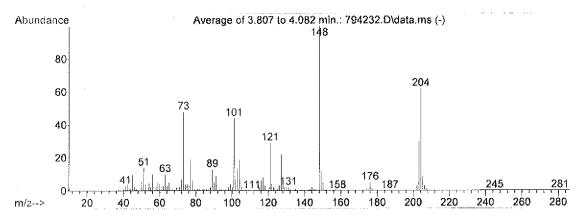
Minimum Quality: 80

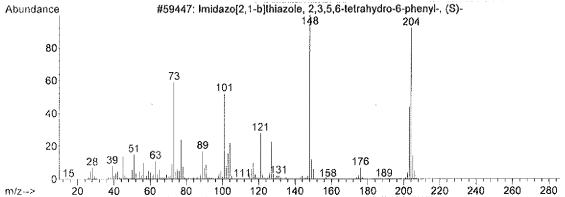
C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
1	3.85	C:\Database\NIST05a.L			•
		Imidazo[2,1-b]thiazole,	2,3,5,6-tet	014769-73-4	99
		Imidazo[2,1-b]thiazole,	2,3,5,6-tet	014769-73-4	98
		Imidazo[2.1-b]thiazole.	2.3.5.6-tet	006649-23-6	98





File Name : F:\Q2-2011\SYSTEM 7\06 29 11\794232.D

Operator : ASD

Date Acquired : 29 Jun 2011 13:58

Sample Name Submitted by DXF Vial Number 32

AcquisitionMeth: DRUGS.M Integrator : RTE

C:\Database\SLI.L Search Libraries:

Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

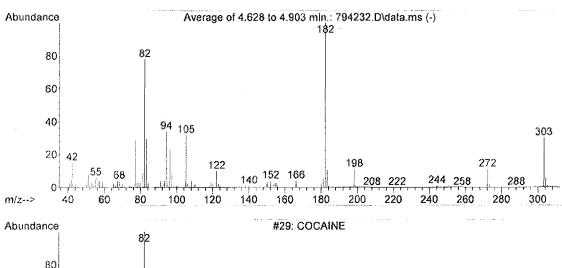
PK# RTLibrary/ID CAS# Qual

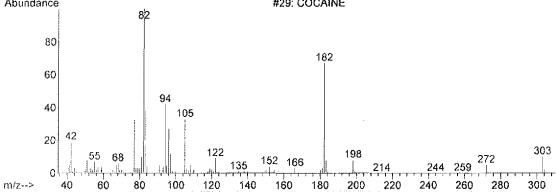
2 4.68 C:\Database\SLI.L

COCAINE

000050-36-2

99



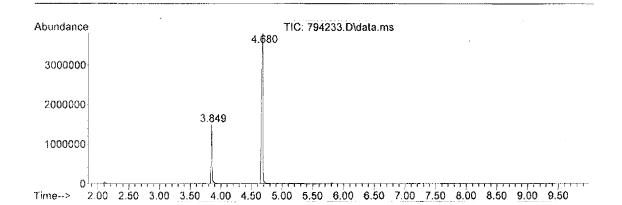


File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794233.D

Operator : ASD

Date Acquired : 29 Jun 2011 14:11

Sample Name :
Submitted by : DXF
Vial Number : 33
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.849	1842090	22.45	28.95	
4.680	6362020	77.55	100.00	

File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794233.D

Operator : ASD

Date Acquired : 29 Jun 2011 14:11

Sample Name : Submitted by :

Submitted by : DXF Vial Number : 33 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

C:\Database\SLI,L

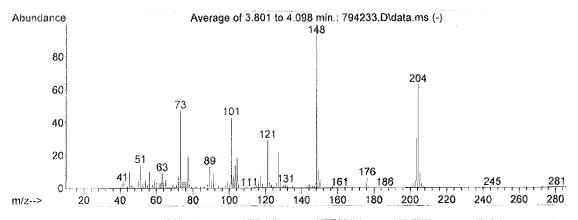
Minimum Quality: 80

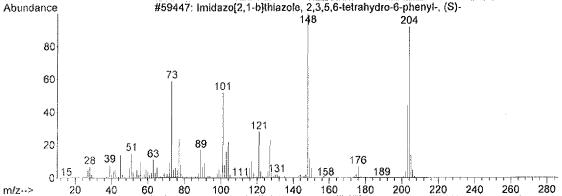
C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
 1	3.85	C:\Database\NIST05a.L			
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	014769-73-4	99
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	006649-23-6	98
		Imidazo[2 1-b]thiazole.	2.3.5.6-tet	014769-73-4	98





File Name : F:\Q2-2011\SYSTEM 7\06 29 11\794233.D

Operator : ASD

Date Acquired : 29 Jun 2011 14:11

Sample Name

Submitted by DXF Vial Number : 33 AcquisitionMeth: DRUGS.M

Integrator : RTE

C:\Database\SLI.L Search Libraries:

Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

PK# RTLibrary/ID CAS# Qual

2 4.68 C:\Database\SLI.L

COCAINE

100

60

80

120

140

160

180

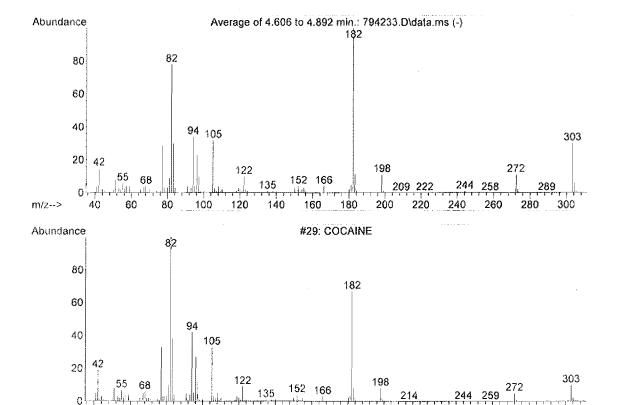
200

220

240

000050-36-2

99



m/z-->

260

300

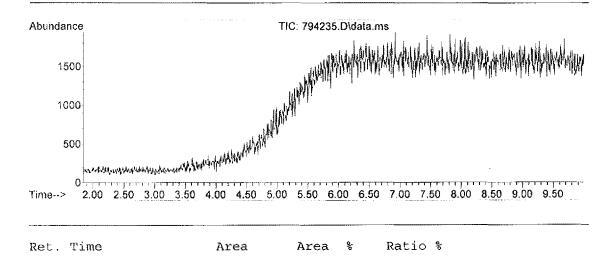
280

File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794235.D

Operator : ASD

Date Acquired : 29 Jun 2011 14:36

Sample Name : BLANK
Submitted by : DXF
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



NO INTEGRATED PEAKS

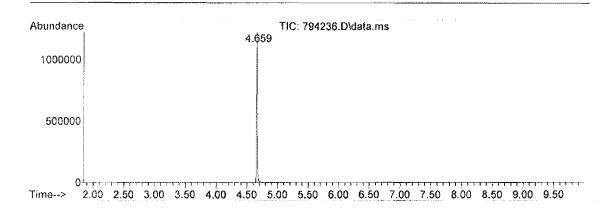
File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794236.D

Operator : ASD

Date Acquired : 29 Jun 2011 14:49

: COCAINE STD Sample Name

Submitted by : DXF Vial Number 16 AcquisitionMeth: DRUGS.M : RTE Integrator



Ret. Time	Area	Area %	Ratio %
4.659	1089436	100.00	100.00

File Name : F:\Q2-2011\SYSTEM 7\06_29_11\794236.D

Operator : ASD

Date Acquired : 29 Jun 2011 14:49

Sample Name : COCAINE STD

Submitted by : DXF Vial Number 16 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
<u></u>				
		a la-t-la-wal ar r		

C:\Database\SLI.L 1 4.66 COCAINE

000050-36-2

99

